



UNIVERSITÄT
HOHENHEIM

Master of Science

ECONOMICS WITH DATA SCIENCE

Curriculum | Winter Semester 2026/27



Table of Content

Glossary	3
General information about the Master's Program	4
Structure and course of the Master's Program in Economics with Data Science	6
Compulsory area	7
Free elective area – Structure	8
Free elective area – Economics modules	9

Glossary

Official notice (Amtliche Mitteilung)	AM
Computer-aided exam (Computergestützte Prüfung)	CP
Term paper (Hausarbeit)	HA
Written exam (Klausur)	K
Oral exam (Mündliche Leistung)	MDL
Mandatory (Pflicht)	P
Examination (Prüfungsleistung)	PL
Presentation (Präsentation)	Präs.
Project (Projekt)	Proj.
Oral presentation (Referat)	REF
Seminar (Seminar)	S
Coursework (Studienleistung)	SL
Contact hours per week (Semesterwochenstunden)	SWS
Ungraded (unbenotet)	unbenot.
Exercise course (Übung)	Ü
Assessment for exercise course (Leistung in der Übung)	ÜL
Lecture (Vorlesung)	V
Lecture with seminar (Vorlesung mit Seminar)	VS
Lecture with exercise course (Vorlesung mit Übung)	VÜ
Elective (Wahl)	W
Scientific poster (wissenschaftliches Poster)	wiss. Poster
Semi-elective (Wahlpflicht)	WP
Mid and final examination (Zwischen-und Abschlussprüfung)	

Note:

The information contained in this curriculum, in particular the information concerning admission regulations, examinations, and the structure of the individual subjects, may be subject to change. The information given here is therefore without guarantee; the regulations adopted by the official bodies are binding.

The basis of this curriculum is the examination regulations and, if applicable, amendment statutes.

You can also find this curriculum at wiso.uni-hohenheim.de/studienplaene. The information listed in HohCampus is legally binding.

General Information about the Master's Program

Study and Examination Plan

The curriculum explains the examination regulations. To complete the program success-fully, familiarity and compliance with the examination regulations is mandatory! This curriculum is intended to help students plan their course of study on the basis of the examination regulations. It serves as the basis for the personal study and examination plan, which is created by the students themselves, taking into account the requirements and deadlines in the examination regulations.

Course Structure: Modules | Course Content | Courses

The Master's program is designed to normally be completed in four semesters and has a modular structure. In the ideal case, students will successfully complete five modules per semester. Detailed descriptions of the course content are available in HohCampus under Study Offerings and Module Descriptions. You can build the schedule for the upcoming semester using the names of the courses with the help of the course catalog provided at the beginning of each semester.

Credit Points

Six ECTS credits (shortened to 'credits' from now on for better readability) are awarded for the workload associated with each module. 24 credits are awarded for the Master's thesis. The Master's program comprises a total of 120 credits. In each module, students must complete graded work. This work is set out in the module catalog (see above). Work assessed with a grade of at least 4.0 is considered a pass.

Examinations

Examinations take place after the end of the current lecture period and before the start of the following lecture period. The lecture period in the winter semester usually starts in mid-October and ends at the end of January/beginning of February. The lecture period in the summer semester usually starts mid-April and ends in the second half of July. Students register for examinations with the Examinations Office during the registration period (as set by the Examinations Office). The dates are available at uni-hohenheim.de/en/examination or via HohCampus. Registration and cancellation of registration is detailed in the examination regulations.

Program Structure

MASTER'S THESIS (24 credits)

ELECTIVE AREA (66 credits)

Recommended modules:

Free elective area (42 credits)

Seminar module (6 credits)

Project-Seminar Empirical Research in Economics (12 credits)

Master's Portfolio module **Economics** (6 credits)

COMPULSORY AREA (30 credits)

Principles of Data Science (6 credits)

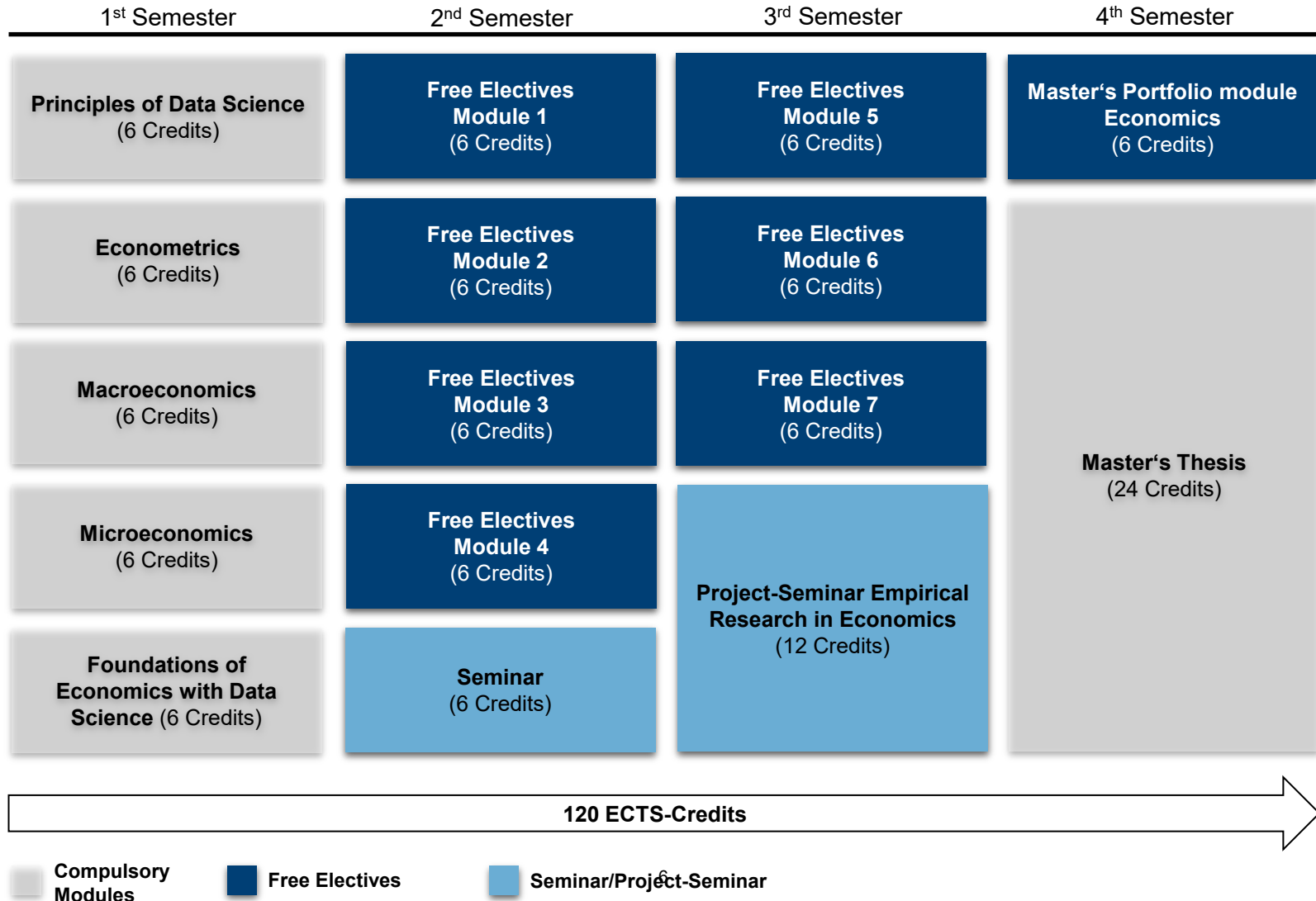
Econometrics (6 credits)

Macroeconomics (6 credits)

Microeconomics (6 credits)

Foundations of Economics ⁵With Data Science (6 credits)

Course of Study



Compulsory area

COMPULSORY AREA (responsibility: Prof. Dr. Robert Jung)

Module Code	Module	Comp.	Rec. Sem.	Assess- ment ¹	Course	Type	SWS	Credits
5107-420	Principles of Data Science	P	1	K HA	Principles of Data Science	V	2	6 (PL)
					Principles of Data Science	Ü	2	
5202-440	Econometrics	P	1	K	Econometrics	V	2	6 (PL)
					Econometrics	Ü	2	
5207-440	Macroeconomics	P	1	K ÜL	Macroeconomics	V	2	6 (PL)
					Macroeconomics	Ü	2	
5203-410	Microeconomics	P	1	REF MDL	Microeconomics	V	2	6 (PL)
					Microeconomics	Ü	2	
5211-420	Foundations of Economics with Data Science	P	1	unbenot. CP	Foundations of Economics with Data Science	V	2	6 (PL)
					Foundations of Economics with Data Science	Ü	2	
TOTAL30								

¹ See Glossary on Page 3. K = Written exam; Ü = Exercise course; ÜL = Assessment for exercise course; HA = Term paper; unbenot. = ungraded; CP = Computer-aided exam; REF = Oral presentation;

Elective area

ELECTIVE AREA - recommended modules (responsibility: Academic program director)

Module Code	Module	Comp.	Rec. Sem.	Assessment	Course	Type	SWS	Credits
	Free electives							42
5200-520	Master Seminar Economics with Data Science				Master Seminar Economics with Data Science			6
5200-610	Empirical Research in Economics				Empirical Research in Economics			12
5000-680	Ungraded Master's Portfolio Module Economics				-			6
TOTAL								66

MASTER SEMINARS (responsibility: Academic program director)

Module Code	Module	Comp.	Rec. Sem.	Assessment	Course	Type	SWS	Credits
5200-520	Master Seminar Economics with Data Science I	W	2 - 4	HA Präs.	Master Seminar Economics with Data Science I	S	2	6 (SL)
5200-530	Master Seminar Economics with Data Science II	W	2 - 4	HA Präs.	Master Seminar Economics with Data Science II	S	2	6 (SL)
TOTAL								6 - 12

PROJECT SEMINAR (responsibility: Academic program director)

Module Code	Module	Comp.	Rec. Sem.	Assessment	Course	Type	SWS	Credits
5200-610	Empirical Research in Economics	W	3/4	Exposé oder Proj.bericht, wiss. Poster, Präs.	Empirical Research in Economics	Proj.	4	12 (SL)
TOTAL								12

MASTER'S PORTFOLIO MODULE (responsibility: Academic program director)

Module Code	Module	Comp.	Rec. Sem.	Assessment	Course	Type	SWS	Credits
5000-680	Ungraded Master's Portfolio Module Economics	W	2 - 4	-	-			6 (SL)
TOTAL								6

LIST OF MODULES IN FREE ELECTIVE AREA (responsibility: Academic program director)

Module Code	Module	Comp.	Rec. Sem.	Assessment	Course	Type	SWS	Credits
5211-530	Applied Time Series Analysis: Econometrics and Statistical Learning	W	2	CP Zwischen- und Abschlussprüfung	Applied Time Series Analysis: Econometrics and Statistical Learning	V	2	6 (SL)
					Applied Time Series Analysis: Econometrics and Statistical Learning	Ü	2	
5203-630	Contract Theory	W	2	Kurzvortrag MDL	Contract Theory	V	2	6 (SL)
					Contract Theory	Ü	2	
5213-520	Development Economics	W	2	K	Development Economics	VÜ	4	6 (PL)
5204-550	Empirical and Experimental Public Economics	W	2	Assignment K	Empirical and Experimental Public Economics	V	2	6 (SL)
					Empirical and Experimental Public Economics	Ü	2	
4407-480	Introduction to Machine Learning in Python	W	2	Quizzes Progr. Assignment CP Exam	Introduction to Machine Learning in Python	E-Learn.	5	7,5 (PL)
5201-530	Monetary Economics	W	2	Term Paper mit Modellimpl. Crit. Review Essay	Monetary Economics	V	2	6 (SL)
					Monetary Economics	Ü	1	

LIST OF MODULES IN FREE ELECTIVE AREA (responsibility: Academic program director)

Module Code	Module	Comp.	Rec. Sem.	Assessment	Course	Type	SWS	Credits
5209-520	Recent Developments in Advanced Innovation Economics	W	2	K	Recent Developments in Advanced Innovation Economics	V	2	6 (SL)
					Recent Developments in Advanced Innovation Economics	Ü	2	
5200-510	Statistical Learning	W	2	K	Statistical Learning	V	2	6 (SL)
					Statistical Learning	Ü	2	
5207-540	Topics in Advanced Labor Economics	W	2	K	Topics in Advanced Labor Economics	V	2	6 (SL)
					Topics in Advanced Labor Economics	Ü	2	
5210-440	Globalization and History	W	3	K	Globalization and History	V	2	6 (SL)
					Globalization and History	Ü	2	
5209-420	Innovation Economics	W	3	K	Innovation Economics: Theory & Empirics	V	2	6 (PL)
					Innovation Economics: Theory & Empirics	Ü	2	
5201-690	International Macroeconomics	W	3	Term Paper mit Modellimpl. Crit. Review Essay	International Macroeconomics	V	2	6 (SL)
					International Macroeconomics	Ü	1	

LIST OF MODULES IN FREE ELECTIVE AREA (responsibility: Academic program director)

Module Code	Module	Comp.	Rec. Sem.	Assessment	Course	Type	SWS	Credits
5207-630	Labor Markets and the Macroeconomy	W	3	K	Macroeconomics of Unemployment	V	2	6 (SL)
					Macroeconomics of Unemployment	Ü	2	
5211-640	Mathematical Statistics for Data Science	W	3	K Assignments Präs	Mathematical Statistics for Data Science	VÜ	4	6 (SL)
5202-530	Microeconometrics	W	3	K, Assignments und Präs.	Microeconometrics	V	2	6 (SL)
					Microeconometrics	Ü	2	
5205-	Quantitative International Trade	W	3	Term Paper mit Modellimpl. K	Quantitative International Trade	V	2	6 (SL)
					Quantitative International Trade	Ü	2	
5204-650	State Capacity, Corruption, and Public Administration	W	3	K REF	State Capacity, Corruption, and Public Administration	V	2	6 (SL)
					State Capacity, Corruption, and Public Administration	Ü	2	
5202-630	Topics in Microeconometrics	W	3	K	Topics in Microeconometrics	VÜ	4	6 (SL)

STUDY ADVISING

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